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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23122 7590 04/30/2010  
RATNERPRESTIA  
P.O. BOX 980  
VALLEY FORGE, PA 19482

EXAMINER	
WEINSTEIN, LEONARD J	
ART UNIT	PAPER NUMBER

3746  
DATE MAILED: 04/30/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,159	03/24/2005	Dieter Dinkel	PC10763US	2091

TITLE OF INVENTION: SUPPLY DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop **ISSUE FEE**  
**Commissioner for Patents**  
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**INSTRUCTIONS:** This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop **ISSUE FEE** address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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10/529,159	03/24/2005	Dieter Dinkel	PC10763US	2091

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINSTEIN, LEONARD J	3746	417-470000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims **SMALL ENTITY** status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming **SMALL ENTITY** status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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RATNERPRESTIA P.O. BOX 980 VALLEY FORGE, PA 19482			WEINSTEIN, LEONARD J	
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3746

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## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 629 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 629 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

**Notice of Allowability****Application No.**

10/529,159

**Examiner**

LEONARD J. WEINSTEIN

**Applicant(s)**

DINKEL ET AL.

**Art Unit**

3746

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to The after final amendment of March 18, 2009.
2. ☒ The allowed claim(s) is/are 23-28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/Leonard J Weinstein/  
Examiner, Art Unit 3746

/Devon C Kramer/  
Supervisory Patent Examiner, Art Unit 3746

### DETAILED ACTION

1. This office action is in response to the amendment of after final amendment of March 18, 2010.
2. The examiner acknowledges the amendment to claim 23 and notes that claims 16, 19, and 31 have been canceled.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

**[claim 25]** the limitations

- “a carrier-side engagement area with which the multi-part cage assembly is accommodated in the carrier for forming a modular unit”

will be amended to recite:

- --- a carrier-side engagement area with which the multi-part cage assembly is accommodated in the carrier ~~for~~ such that the multi-part cage assembly forming a modular unit ---

The limitations that have been amended were part of the rejection of claim 25 under 35 U.S.C. §112 second paragraph set forth in the office action of November 10, 2008. Office Action Nov. 11, 2008, (“Nov. 11 Office Action”) pg. 10. In that office action the

examiner stated that the limitations would be considered to be "--- a carrier-side engagement area with which the multi-part cage assembly is accommodated in the carrier, the multi-part cage assembly forming a modular unit ---." *Id.* In the amendment of January 12, 2009 it was stated that claim 25 was amended to be consistent with claim language discussed in the Nov. 11 Office Action. Amendment of Jan. 12, 2009, ("Jan. 12 Amendment"), pg. 6. However the suggested language of --- the multi-part cage assembly forming a modular unit --- was not incorporated. The examiner's amendment above adds clarity, claims the same subject matter, and has the same effect as the previously suggested claim language that the applicant acquiesced to but did not incorporate into claim 25.

***Allowable Subject Matter***

3. Claims 23-28 are allowed.
4. The following is an examiner's statement of reasons for allowance: the prior art does not teach or suggest the limitations for a supply device for supplying fluid to a vehicle brake including a multi-part cage assembly comprising a plurality of separate cage parts for accommodating a resetting spring, wherein the resetting spring is caged and simultaneously elastically preloaded under the relative displacement of the plurality of separate cage parts, in combination with:

a. **Claim 25:**

- i. fastening means for locking the multi-part cage assembly comprising at least two locking arms formed on a first cage part and at least two holes/recesses formed on a second cage part each locking arm

of the first cage part having a resiliently deformable and unconstrained end configured for engaging a hole of the second cage part upon relative displacement of the first and second cage parts;

ii. wherein one of the first and second cage parts has a cylindrical wall forming a carrier- side engagement area with which the multi-part cage assembly is accommodated in the carrier for forming a modular unit, and wherein a carrier-side accommodating area is axially spaced from the fastening means.

b. **Claim 26:**

i. a catch-type engagement fastening the plurality of cage parts to one another and comprising locking recesses being provided on a first cage part and a plurality of locking arms on a second cage part,

ii. wherein each locking arm is configured for engagement with a respective locking recess,

iii. wherein in a cage-part circumferential direction (U), a width (B) of the locking arms of the second cage part is considerably smaller than a width (b) of the locking recesses of the first cage part so that the first and second cage parts can be locked directly upon twisting the plurality of separate cage parts relative to each other in the cage-part circumferential direction (U).

5. With respect to claims 25 and 26, the prior art does not teach the specific features directed towards a multi-part cage fastening means or catch type engagement as claimed.

a. With respect to the prior art of Risch WO 99/42725, the reference teaches a multi-part cage (figures 28-30) that includes a first cage part 7 with locking arms that engage recesses (63, 64) on a second cage part 60.

i. With respect to claim 25, Risch does not teach locking arms with ends that engage a hole in the other cage part which are resiliently deformable and unconstrained. The locking arms (65, 66) of Risch are generally rigid but more importantly, the end of the arm that engages the holes (63, 64) is defined by the small lip that is formed in a plane orthogonal to the longitudinal axis of a first cage part 7. This lip is directly and rigidly attached to the body of the first cage part 7 and is therefore constrained.

ii. With respect to claim 26, Risch does not teach the limitation of a catch-type engagement where one cage part has more locking arms than recesses on the other cage part. Risch teaches a one to one ratio between arms and recesses. Further Risch does not teach first and second cage parts locking together when twisted relative to the one another facilitated by the width of the locking arms being considerably smaller than a width of locking recesses. Risch teaches a second cage part 60 that is snap fit onto the first cage part 7, there is no twisting



because the legs (61,62) with recesses (63, 64) of the second cage part pass over arms (65, 66) of the first cage part 7 through a linear motion of the second cage part 60 orthogonal to the longitudinal axis of the first cage part 7.

b. With respect to the prior art of Hinz et al. US 6,866,489, the reference teaches a multi-part cage (figures 12) that includes a first cage part 36 and a second cage part 63.

i. With respect to claim 25, Hinz does not teach locking arms with ends that engage a hole in the other cage part. Hinz teaches one cage part 63 being press-fit within another cage part 36. Further Hinz does not teach a carrier engagement area that is axially spaced from a fastening means. The cage parts are press together at the point or directly over the area where the circumferential wall one cage part is received in a carrier.

ii. With respect to claim 26 Hinz does not teach the limitations of a catch-type engagement with locking arms with ends that engage recesses in the other cage part. Further Hinz does not teach cage parts which are twisted relative to each other to lock the parts together.

c. With respect to the prior art of Schuller et al. US 6,361,295, the reference teaches a multi-part cage (figures 1, elements 26 and 68) that is assembled using a detent connection. With respect to claim 25 Schuller does not teach individual arms engaging individual recesses. With respect to claim 26 Schuller

teaches a snap fit detent connection between cage parts that do not twist relative to one another for locking.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD J. WEINSTEIN whose telephone number is (571)272-9961. The examiner can normally be reached on Monday - Thursday 7:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/  
Supervisory Patent Examiner, Art  
Unit 3746

/Leonard J Weinstein/  
Examiner, Art Unit 3746